Title (en)
METHOD AND APPARATUS FOR REDUCING IMAGE NOISE

Title (de)
VERFAHREN UND VORRICHTUNG ZUR VERRINGERUNG DES BILDRAUSCHENS

Title (fr)
PROCEDE ET APPAREIL POUR REDUIRE LE BRUIT D'UNE IMAGE

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Application
EP 02703859 A 20020220

Priority
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Abstract (en)
[origin: US2003152287A1] The present invention relates to an image reduction method and apparatus to be preferably used to digitize and process, for example, an image signal. Therefore, in the case of the present invention, level values a to h of peripheral pixels of a pattern 1, the level value o of a watched pixel, and the value of a reference level theta are input and level values a to h in which absolute values for differences between level values of peripheral pixels and the watched pixel are smaller than the value of the reference level theta are output to output ports 3. Moreover, the value of the number of output ports 3 to which level values a to h is output to an output port 4. Moreover, the level value o of the watched pixel is supplied to a multiplier 9 and multiplied by an optional gain set value alpha, and the multiplication value is supplied to an adder 5 and added with the level values a to h output from the output ports 3 of a selection circuit 2 and the addition value is supplied to a divider 7. Furthermore, the gain set value a is supplied to an adder 11 and added with a value output from the output port 4 of the selection circuit 2 and the addition value is supplied to the divider 7. Then, a value output from the adder 5 is divided by a value output from the adder 11 and the value of the operation result is derived from an output port 8. Thereby, the degree of signal processing is optionally set by the so-called epsi-filter and the rate of watched pixels relating to the averaging operation is controlled and thereby, it is possible to optionally set the degree of signal processing and perform optimum image processing.

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US 2003152287 A1 20030814; **US 7116837 B2 20061003**; CN 1251146 C 20060412; CN 1461455 A 20031210; EP 1367536 A1 20031203; EP 1367536 A4 20080716; EP 1367536 B1 20111019; JP 2002259965 A 20020913; KR 100949403 B1 20100324; KR 20020093076 A 20021212; TW 545043 B 20030801; WO 02069264 A1 20020906

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